YIXIN CHEN

Quantitative researcher in an interdisciplinary field | Delivering data-driven insights to a wide audience

EXPERIENCE

Data Scientist | Qingsi Technologies Co., Ltd. | Jun 2021 - Aug 2021

- Developed Python statistical analysis module
  - Wrote an in-house Python module to conduct simple effects analysis and post hoc tests for ANOVA and ANCOVA models.
  - Compared the Python module with its R counterpart in result consistency.
  - Collaborated closely with the product and engineering teams in providing written module documentation and in addressing questions.

Ph.D. Researcher | Boston University | Sept 2018 - Now

- Studying human behavior via interdisciplinary methods
  - Built a reinforcement learning model that behaves like humans, which contributed to a collaboration on an NIH R01 grant and an NSF R21 grant.
  - Conducted controlled experiments and analyzed behavioral data of 800+ participants in Python/R to test decision-making theories in Psychology and Economics.
  - Invented and validated task-based and model-based metrics to assess personality traits and mental health conditions.
- Developing large-scale data analysis and experimentation tools
  - Wrote Bayesian optimization and parallel computing scripts in R and Shell to facilitate large-scale data analysis.
  - Coded web-based games in JavaScript and integrated them with mTurk and Qualtrics to build an end-to-end online experimentation pipeline.
- Communicating quantitative topics to a diverse audience
  - Wrote a manuscript, gave 2 talks, and presented 2 posters as the first author.
  - Taught 60+ undergraduate-level sections on statistics and experiment design.
  - Taught 2 tutorial sessions on online experimentation and guided four other labs to build their own online experimentation pipelines.

Education

Boston University, | Ph.D. in Cognitive Science | Graduating 2023 | 3.95/4 GPA
Tsinghua University, | B.S. with Honors in Psychology | Graduated 2018 | 92.6/100 GPA
Peking University, | Dual degree in Economics | Graduated 2018
University of Pennsylvania, | Visiting scholar | Jun 2017 - Sept 2017

Fellowships, Awards, and Honors

2021, Clara Mayo Memorial Fellowship, Boston University
2017, Top Open Fellowship, Tsinghua University
2017, Honor of Scientific Innovation, Tsinghua University
2015-2016, Fellowship of Academic Excellence, Tsinghua University
2015-2016, China Finance 40 Forum Fellowship Program, Beijing, China

Programming

Python | R | SQL
Shell | Git | JavaScript

Statistics

Hypothesis Testing
Statistical Modeling
Bayesian Methods

Research skills

Controlled Experiments
Modeling of Behavior
Online Games
Questionnaires

PhD-level courses

Generalized Linear Models | 4.0
Statistics of Networks | 4.0
Stats for Quant Research | 4.0
Neural Models | 4.0

Language

English
Mandarin

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